



IFWO

RAW SEQUENCE LISTING

DATE: 09/20/2004

PATENT APPLICATION: US/10/798,096B

TIME: 16:20:43

Input Set : A:\00670658.txt

Output Set: N:\CRF4\09202004\J798096B.raw

4 <110> APPLICANT: Chu, Rea-Min
 5 Lin, Ching-Yi
 6 Hsiao, Ya-Wen
 7 Liao, Kuang-Wen
 9 <120> TITLE OF INVENTION: COMPLEX IMMUNO-GENE MEDICAL COMPOSITION FOR INHIBITING TUMOR
 10 CELLS
 12 <130> FILE REFERENCE: P/741-176
 14 <140> CURRENT APPLICATION NUMBER: 10/798,096B
 15 <141> CURRENT FILING DATE: 2004-03-11
 17 <160> NUMBER OF SEQ ID NOS: 4
 19 <170> SOFTWARE: PatentIn version 3.2
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 636
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Human
 26 <220> FEATURE:
 27 <221> NAME/KEY: CDS
 28 <222> LOCATION: (1)..(636)
 29 <223> OTHER INFORMATION: IL-6
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 32 atg aac tcc ttc tcc aca agc gcc ttc ggt cca gtt gcc tcc tcc ctg 48
 33 Met Asn Ser Phe Ser Thr Ser Ala Phe Gly Pro Val Ala Ser Ser Leu
 34 1 5 10 15
 36 ggg ctg ctc ctg gtg ttg cct gct gcc ttc cct gcc cca gta ccc cca 96
 37 Gly Leu Leu Leu Val Leu Pro Ala Ala Phe Pro Ala Pro Val Pro Pro
 38 20 25 30
 40 gga gaa gat tcc aaa gat gta gcc gcc cca cac aga cag cca ctc acc 144
 41 Gly Glu Asp Ser Lys Asp Val Ala Ala Pro His Arg Gln Pro Leu Thr
 42 35 40 45
 44 tct tca gaa cga att gac aaa caa att cgg tac atc ctc gac ggc atc 192
 45 Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile Leu Asp Gly Ile
 46 50 55 60
 48 tca gcc ctg aga aag gag aca tgt aac aag agt aac atg tgt gaa agc 240
 49 Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser
 50 65 70 75 80
 52 agc aaa gag gca ctg gca gaa aac aac ctg aac ctt cca aag atg gct 288
 53 Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala
 54 85 90 95
 56 gaa aaa gat gga tgc ttc caa tct gga ttc aat gag gag act tgc ctg 336
 57 Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu
 58 100 105 110
 60 gtg aaa atc atc act ggt ctt ttg gag ttt gag gta tac cta cag tac 384
 61 Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val Tyr Leu Gln Tyr



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62          115          120          125
64 ctc cag aac aga ttt gag agt agt gag gaa caa gcc aga gct gtg cag      432
65 Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala Arg Ala Val Gln
66          130          135          140
68 atg agt aca aaa gtc ctg atc cag ttc ctg cag aaa aag gca aag aat      480
69 Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys Lys Ala Lys Asn
70 145          150          155          160
72 cta gat gca ata acc acc cct gac cca acc aca aat gcc agc ctg ctg      528
73 Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn Ala Ser Leu Leu
74          165          170          175
76 acg aag ctg cag gca cag aac cag tgg ctg cag gac atg aca act cat      576
77 Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Gln Asp Met Thr Thr His
78          180          185          190
80 ctc att ctg cgc agc ttt aag gag ttc ctg cag tcc agc ctg agg gct      624
81 Leu Ile Leu Arg Ser Phe Lys Glu Phe Leu Gln Ser Ser Leu Arg Ala
82          195          200          205
84 ctt cgg caa atg      636
85 Leu Arg Gln Met
86          210
88 <210> SEQ ID NO: 2
89 <211> LENGTH: 60
90 <212> TYPE: DNA
91 <213> ORGANISM: Human
93 <220> FEATURE:
94 <221> NAME/KEY: CDS
95 <222> LOCATION: (1)..(60)
96 <223> OTHER INFORMATION: IL-2 Signal Peptide
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100 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu
101 1          5          10          15
103 gtc aca aac agt      60
104 Val Thr Asn Ser
105          20
107 <210> SEQ ID NO: 3
108 <211> LENGTH: 342
109 <212> TYPE: DNA
110 <213> ORGANISM: Human
112 <220> FEATURE:
113 <221> NAME/KEY: CDS
114 <222> LOCATION: (1)..(342)
115 <223> OTHER INFORMATION: Partial Sequence Encoding Human IL-15
117 <400> SEQUENCE: 3
118 aac tgg gtg aat gta ata agt gat ttg aaa aaa att gaa gat ctt att      48
119 Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile
120 1          5          10          15
122 caa tct atg cat att gat gct act tta tat acg gaa agt gat gtt cac      96
123 Gln Ser Met His Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His
124          20          25          30

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126 ccc agt tgc aaa gta aca gca atg aag tgc ttt ctc ttg gag tta caa      144
127 Pro Ser Cys Lys Val Thr Ala Met Lys Cys Phe Leu Leu Glu Leu Gln
128          35          40          45
130 gtt att tca ctt gag tcc gga gat gca agt att cat gat aca gta gaa      192
131 Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His Asp Thr Val Glu
132          50          55          60
134 aat ctg atc atc cta gca aac aac agt ttg tct tct aat ggg aat gta      240
135 Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn Val
136 65          70          75          80
138 aca gaa tct gga tgc aaa gaa tgt gag gaa ctg gag gaa aaa aat att      288
139 Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Asn Ile
140          85          90          95
142 aaa gaa ttt ttg cag agt ttt gta cat att gtc caa atg ttc atc aac      336
143 Lys Glu Phe Leu Gln Ser Phe Val His Ile Val Gln Met Phe Ile Asn
144          100          105          110
146 act tct      342
147 Thr Ser
149 <210> SEQ ID NO: 4
150 <211> LENGTH: 402
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial
154 <220> FEATURE:
155 <221> NAME/KEY: CDS
156 <222> LOCATION: (1)..(402)
157 <223> OTHER INFORMATION: Bases 1-60 Code for IL-2 Signal Peptide
159 <400> SEQUENCE: 4
160 atg tac agg atg caa ctc ctg tct tgc att gca cta agt ctt gca ctt      48
161 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu
162 1          5          10          15
164 gtc aca aac agt aac tgg gtg aat gta ata agt gat ttg aaa aaa att      96
165 Val Thr Asn Ser Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile
166          20          25          30
168 gaa gat ctt att caa tct atg cat att gat gct act tta tat acg gaa      144
169 Glu Asp Leu Ile Gln Ser Met His Ile Asp Ala Thr Leu Tyr Thr Glu
170          35          40          45
172 agt gat gtt cac ccc agt tgc aaa gta aca gca atg aag tgc ttt ctc      192
173 Ser Asp Val His Pro Ser Cys Lys Val Thr Ala Met Lys Cys Phe Leu
174          50          55          60
176 ttg gag tta caa gtt att tca ctt gag tcc gga gat gca agt att cat      240
177 Leu Glu Leu Gln Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His
178 65          70          75          80
180 gat aca gta gaa aat ctg atc atc cta gca aac aac agt ttg tct tct      288
181 Asp Thr Val Glu Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser
182          85          90          95
184 aat ggg aat gta aca gaa tct gga tgc aaa gaa tgt gag gaa ctg gag      336
185 Asn Gly Asn Val Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu
186          100          105          110
188 gaa aaa aat att aaa gaa ttt ttg cag agt ttt gta cat att gtc caa      384
189 Glu Lys Asn Ile Lys Glu Phe Leu Gln Ser Phe Val His Ile Val Gln

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190	115	120	125	402
192	atg ttc atc aac act tct			
193	Met Phe Ile Asn Thr Ser			
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/798,096B

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TIME: 16:20:44

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4

VERIFICATION SUMMARY

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